

Preface

This proceedings volume includes papers for presentation at DGCi 2000 in Uppsala, Sweden, 13–15 December 2000. DGCi 2000 is the 9th in a series of international conferences on Discrete Geometry for Computer Imagery. DGCi 2000 is organized by the Centre for Image Analysis (Swedish University of Agricultural Sciences and Uppsala University). It is sponsored by the International Association for Pattern Recognition (IAPR) and by the Swedish Society for Automated Image Analysis (SSAB). This is the first DGCi conference to take place outside France.

The number of researchers active in the field of discrete geometry and computer imagery is increasing. In comparison with the previous editions, DGCi 2000 has attracted a significantly larger number of research contributions from academic and research institutions in different countries. In fact, 62 papers were submitted. The contributions focus on topology, discrete images, surfaces and volumes, shape representation, and shape understanding. After careful reviewing by an international board of reviewers, 40 papers from 16 countries were accepted, leading to a high-quality conference. Of the 40 accepted papers, 28 were selected for oral presentation and 12 for poster presentation. All accepted contributions have been scheduled in plenary sessions. The programme also has been enriched by three invited lectures, presented by three internationally known speakers: Pieter Jonker (Delft University of Technology, The Netherlands), Pierre Soille (ISPRA, Italy), and Jayaram K. Udupa (University of Pennsylvania, USA).

We hope that we have made DGCi 2000 an unforgettable event, especially for researchers from outside Sweden. In fact, the uniquely Swedish Lucia celebration of returning light in the middle of winter has been scheduled in the early morning of 13 December, just before starting the DGCi technical programme. Also, the conference dates were chosen to overlap with the week when the Nobel Prizes are awarded in Stockholm and the Nobel Laureates are giving lectures in Uppsala. In our opinion, these events should be very stimulating for all researchers.

Hereby, we would like to thank the contributors who responded to the call for papers, the invited speakers, all reviewers and members of the Steering, Programme, and Local Committees, as well as DGCi participants. We are also grateful to the sponsoring organizations that provided financial help, indispensable to a successful conference.

September 2000

Gunilla Borgefors
Ingela Nyström
Gabriella Sanniti di Baja

Organization

DGCI 2000 is organized by the Centre for Image Analysis, Swedish University of Agricultural Sciences, and Uppsala University in Uppsala. The conference venue is the Mathematics and Information Technology campus (MIC) of Uppsala University.

Conference Chairs

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Programme Chair:	Gabriella Sanniti di Baja Istituto di Cibernetica, National Research Council of Italy, Arco Felice (Napoli), Italy
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